

AMENDMENT TO THE CLAIMS

1-40 (Canceled).

41. (Currently Amended) A stereoscopic projection system comprising a projection device with at least one filter which filters a parameter of the light in a color selective manner, said filtering in a color selective manner being for obtaining the stereoscopic effect of the stereoscopic images for a left eye and a right eye, respectively, the at least one filter having a spectral characteristic for simultaneously transmitting light in a first ~~wavelength band or~~ set of wavelength bands and for simultaneously reflecting or absorbing light in a second ~~wavelength band or~~ set of wavelength bands, wherein the projection device comprises a means for fast synchronized switching between light in different wavelength bands or sets of wavelength bands.

42. (Previously Presented) A stereoscopic projection system according to claim 41, comprising a projection device with at least a first filter which filters a parameter of the light in a color selective manner with a first spectral characteristic and a second filter which filters a parameter of the light in a color selective manner with a second spectral characteristic, wherein the projection device comprises a means for fast synchronized switching between the at least first and second filters.

43. (Previously Presented) A stereoscopic projection system according to claim 41, the projection device projecting images for a left eye and images for a right eye, the stereoscopic projection system furthermore comprising a passive obscuration device for discriminating between the images for the left eye and the images for the right eye.

44. (Previously Presented) A stereoscopic projection system according to claim 42, wherein the means for fast synchronized switching comprises a rotating wheel with at least one set of the first and second filters.

45. (Previously Presented) A stereoscopic projection system according to claim 42, wherein the means for fast synchronized switching comprises a sliding filter with at

least one set of the first and second filters.

46. (Previously Presented) A stereoscopic projection system according to claim 42, wherein the means for fast synchronized switching comprises a solid state filter that can switch from a first characteristic to a second characteristic with a switching time below 5 ms.

47. (Previously Presented) A stereoscopic projection system according to claim 42, wherein the means for fast synchronized switching comprises a stack of switchable cholesteric filters.

48. (Previously Presented) A stereoscopic projection system according to claim 41, wherein the at least one filter is a first filter for splitting light in a first light path and a second light path, the means for fast synchronized switching comprising a first shutter in the first light path and a second shutter in the second light path, the operation of the shutters being linked so that the first shutter closes when the second shutter opens and vice versa.

49. (Previously Presented) A stereoscopic projection system according to claim 48, furthermore comprising a further filter with a characteristic substantially similar to the spectral characteristic of the first filter, the further filter being for combining light from the first and second lightpaths onto a combined lightpath.

50. (Previously Presented) A stereoscopic projection system according to claim 41, the at least one filter having a spectral characteristic for transmitting light in a first set of wavelength bands and for reflecting or absorbing light in a second set of wavelength bands, wherein the at least one filter has components in three primary color regions.

51-61 (Canceled).

62. (Currently Amended) A stereoscopic projection system according to claim 41, furthermore comprising means for electronically compensating for color differences

between a plurality of signals originating from the projection device ~~or projection devices~~.

63. (Canceled)

64. (Canceled)

65. (Previously Presented) A stereoscopic projection system according to claim 41, furthermore comprising means for reducing cross-talk in the most photopically contributing color channel of the projection device.

66-68 (Canceled).

69. (Previously Presented) A stereoscopic projection system according to claim 65, wherein the means for reducing cross-talk comprises a first filter which filters a parameter of the light in a color selective manner in the most photopically contributing color channel of the first projection device, and a second filter which filters a parameter of the light in a color selective manner in the most photopically contributing color channel of the second projection device, the first and the second filters showing no overlap in the most photopically contributing color channel.

70. (Canceled)

71. (Previously Presented) A stereoscopic projection system according to claim 41, wherein the projection device is equipped with a light source with a substantially flat spectral distribution.

72. (Canceled)

73. (Currently Amended) A stereoscopic projection system according to claim 71, wherein the projection device is furthermore equipped with a set of filters such that the combination of light source and set of filters of the projection device is such that the light which is projected by the ~~at least two projection devices~~ device onto the

common screen can be discriminated by means of an adjusted obscuration device.

74. (Canceled)

75. (Currently Amended) A stereoscopic projection system according to claim 73, wherein the light source and the set of filters of ~~each of the at least two~~ projection device ~~devices~~ are such that a multiplication of the spectral distributions of the light projected by the ~~at least two~~ projection device ~~devices~~ onto the common screen is substantially close to zero.

76. (Canceled)

77. (Previously Presented) A stereoscopic projection system according to claim 73, wherein the set of filters are stereo filters.

78. (Canceled)

79. (Previously Presented) A stereoscopic projection system according to claim 77, wherein the set of filters are color filters.

80. (Canceled)

81. (Previously Presented) A stereoscopic projection system according to claim 71, furthermore comprising means for electronically compensating for color differences between light projected from each of the at least two projection devices.

82. (Canceled)

83. (Previously Presented) A stereoscopic projection system according to claim 41, comprising a plurality of stereo projection devices for multiple image stereo applications.

84. (Canceled)

85. (Previously Presented) A stereoscopic projection system according to claim 41, wherein said filtering in a color selective manner reaches a common color gamut for the images for the left and right eye.

86. (Canceled)

87. (Currently Amended) A stereoscopic projection system comprising a projection device with at least one filter which filters a parameter of the light in a color selective manner, said filtering in a color selective manner being for obtaining the stereoscopic effect of the stereoscopic images for a left eye and a right eye, respectively, the at least one filter having a spectral characteristic for simultaneously transmitting light in a first ~~wavelength band or~~ set of wavelength bands and for simultaneously reflecting or absorbing light in a second ~~wavelength band or~~ set of wavelength bands, wherein the projection device comprises a means for fast synchronized switching between light in different wavelength bands or sets of wavelength bands, wherein the system furthermore comprises means for electronically compensating for color differences between a plurality of signals originating from the projection device or projection devices.

88. (Previously Presented) A stereoscopic projection system according to claim 87, wherein the means for electronically compensating for color differences between a plurality of signals originating from the projection device comprises means for switching on a left image – right image basis.

89. (Previously Presented) A stereoscopic projection system according to claim 87, wherein the system is adapted for converting said plurality of signals to correspond with a single color gamut.

90. (Previously Presented) A stereoscopic projection system according to claim 88, wherein the system is adapted for converting said plurality of signals to correspond with a single color gamut.

91. (Canceled)

92. (Canceled)